



CONSTRUCTION EQUIPMENT

374735 VOLVO L70H 622160 - DIESEL ENGINE



Sample No: VCP394706
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 374735



SAMPLE INFORMATION

Sample Number	VCP394706	VCP392392	VCP352960	VCP332545
Sample Date	14 Aug 2023	06 Apr 2023	03 Nov 2022	22 Jun 2022
Machine Hours	7123	6501	5863	5306
Oil Hours	600	0	500	700
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 RED DEER COUNTY, AB
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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.9	13.7	13.1
Oxidation (PA)	%	88	96	102	92

CONTAMINATION

Soot %	%	0.2	0	0	0
Nitration (PA)	%	73	85	85	75
Sulfation (PA)	%	66	73	69	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	6	7
Sodium	ppm	3	2	3	3
Potassium	ppm	0	0	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	9	10	10	10
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	5	5	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	47	44	42
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1676	1879	1784	1707
Magnesium	ppm	608	578	532	533
Zinc	ppm	1151	1203	1143	1142
Phosphorus	ppm	1029	1090	1007	968
Barium	ppm	0	0	0	0
Boron	ppm	20	32	28	33

Depot: VOLVO9652
Unique No: 5629727
Signed: Wes Davis
Report Date: 18 Aug 2023

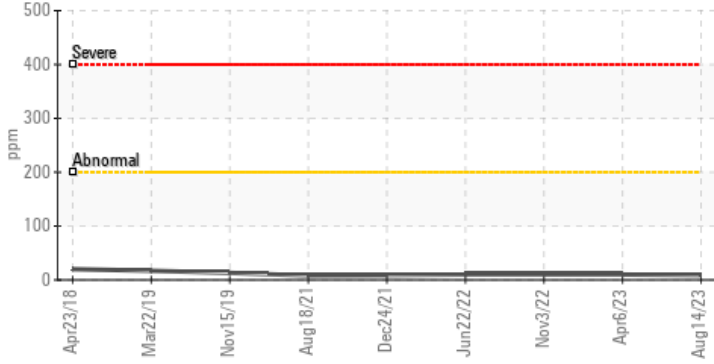


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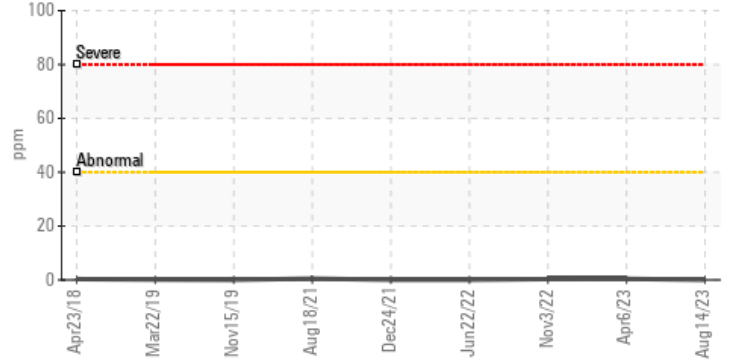


GRAPHS

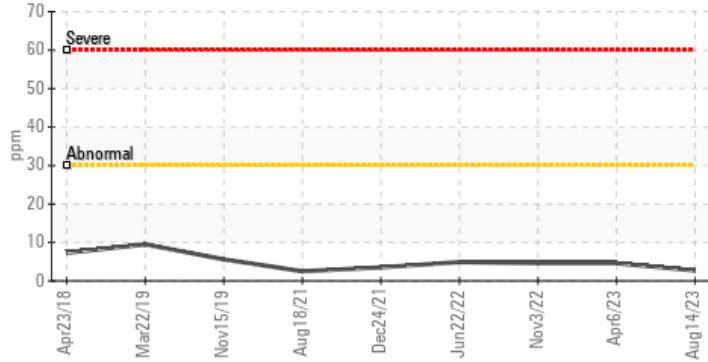
Iron (ppm)



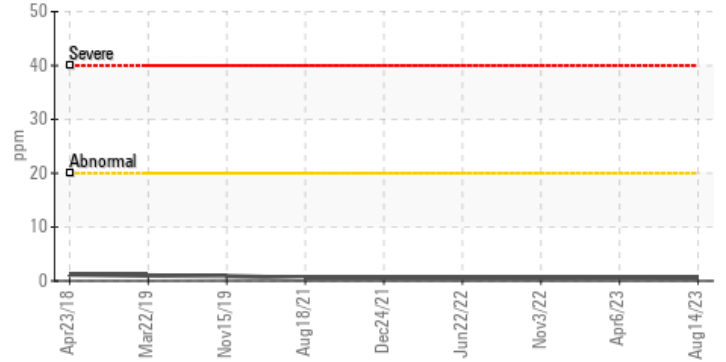
Lead (ppm)



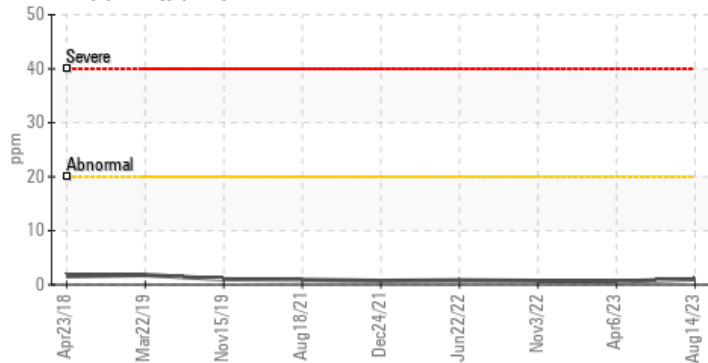
Aluminum (ppm)



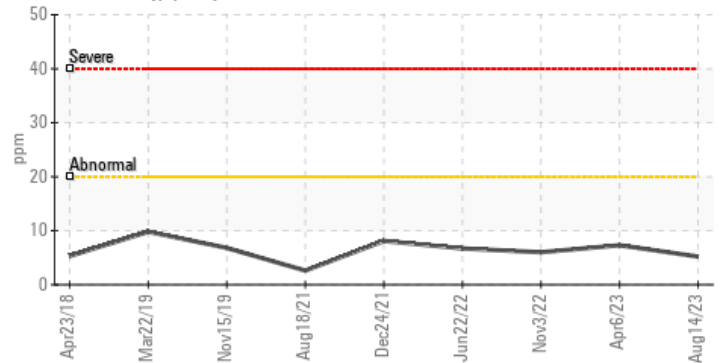
Chromium (ppm)



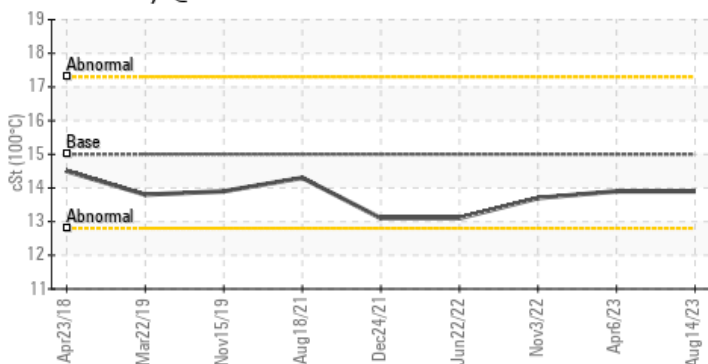
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

